X

LIEUTENANT GOVERNOR BENGAL FORWARDED

PROGRESS REPORT

OF

FOREST ADMINISTRATION

IN

AJMERE-MERWARA

FOR

1888-89.

BY

J. E. BARRETT, Esq.,

ASSISTANT CONSERVATOR OF FORESTS.

WITH A REVIEW BY THE CHIEF COMMISSIONER,

AND

ORDERS BY THE GOVERNMENT OF INDIA.

1890.

No. 319-F., dated Simla, the 30th April 1890.

From—The HONOURABLE W. C. BENETT, C.S., *Officiating Secretary to the Government of India,*

To—The Chief Commissioner of Ajmere.

I AM directed to acknowledge the receipt of your letter No. 3400-S., dated 10th September last, forwarding the Report of Forest Administration in Ajmere and Merwara for the year 1888-89, with the remarks of the Commissioner and your Resolution thereon.

2. It is admitted that the area of Government land reserved under the Ajmere Forest Regulation of 1874, though there are reasons for thinking that it is insufficient to provide for the wants of the population in forest produce, cannot be increased, and you express your regret that no progress has been made in the system of taking over village lands for management by the Forest Department. The lands belonging to the village of Makhupura, which were previously said to have been placed under Government control, had to be surrendered, as they proved to be the property of a Jagirdar and to have been wrongfully handed over by the villagers. At the time to which the Report refers, no village lands had been placed under forest reservation, but the Commissioner was hopeful that the Makhupura enclosure would still be made over by the Jagirdar; and the Assistant Commissioner, after the close of the year under review, prevailed on the villagers of Saradnna to agree to have a portion of their waste land reserved and managed for them by the Forest Department. With regard to the conditions under which such lands may be best managed, I am to direct your attention to the concluding clause of paragraph 2 of the Government of India's review of the Annual Progress Report for 1887-38. When the proprietors consent that any portion of their land should be declared to be a State Forest, the rules to be enacted under section 9 of Ajmere Regulation VI of 1874 should be settled beforehand, with the object of clearly satisfying the people regarding the intentions of the Government in assuming the management of waste lands capable of producing, under proper treatment, improved supplies of fuel and fodder.

3. Boundary marks and fencing were kept in repair at the moderate cost of Rs. 73, and you anticipate no great expenditure in the future on the maintenance of fences and boundaries.

4. The working of the forests was carried out according to a pre-considered plan; but the operations now regularly effected include protection from fire, the regulation of grazing, improvements by sowing and planting, as well as exploitation by coppice and other fellings, and the Government of India concurs with you in thinking that there is no apparent reason why regular working-plans should not be substituted for yearly plans of operations. Working-plans can be framed under existing orders on the advice of the Inspector General of Forests.

5. The number of offences prosecuted, as well as of those compounded, increased; and, as there were no acquittals, it may be accepted that ill-considered prosecutions were not undertaken. There was also a considerable increase in the number of cattle impounded for trespass.

Fire-protection was less successful than usual, and I am to suggest the desirability of widening the fire-lines where they divide Reserves from high grass land liable to be burnt. Your directions regarding the more thorough burning of the fire-lines will, it is hoped, have the effect of making protection more certain in future.

6. In future Reports a statement should be given showing the areas closed and open to grazing, as well as the number of cattle admitted. It is observed that the value of grass removed by the right-holders is estimated at Rs. 67,083. The large increase in the number of tickets for cutting grass which were issued during the year is satisfactory.

7. In all 52 acres were added to the various small areas treated as regular plantations. These aggregated 489 acres at the close of the year, after allowing for the exclusion of 14 acres, the reasons for which are not given.

Better results would probably be obtained by concentration. The supervision and protection, if properly carried out, of 21 small plantations or nurseries, with areas from 3 to 80 acres, are likely to involve an outlay out of all proportion to the results.

Other improvements in cultivation, such as the cutting over of certain areas, are not sufficiently explained. More detailed information on this subject should be given in future Reports.

8. The estimated outturn of fuel was 227,480 cubic feet (of which 21,300 were removed by Government agency), and the sale of minor forest produce realized Rs. 4,000. In addition, free grants of standing wood were made, of which no estimate is given. Their amount should be estimated and entered in the returns, as prescribed by the Forest Code.

9. The following statement shows the financial results of the year's working, as compared with those of the previous year :—

Year.	Receipts.	Charges.	Deficit.
	Rs.	Rs.	Rs.
1888-89 ...	13 574	15,677	2,103
1887-88 ...	14,293	18,897	4,604
Decrease in 1888-89 ...	719	3,220	2 501

The Receipts do not include the estimated value of the produce, chiefly grass, granted free to the villagers, but the benefit of these grants to the population should be taken into account in considering the financial results of Forest Administration in Ajmere.

10. The Government of India concurs in your conclusion that the results of the year were satisfactory.

No. 320-F.

Copy, with copy of the Report, forwarded to the Government of the North-Western Provinces and Oudh, for communication to the Conservator of Forests, School Circle.

No. 321-F.

Copy, with copy of the Report, forwarded to the Foreign Department for information.

Statement of discrepancies noticed in the Ajmere Forest Administration Report for 1888-89.

ON a comparison of Form No 52 (Plantations) with the same Form for 1887-88, it is noticed that, under "Nurseries," the Ajmere and Beawar Nurseries of 10 and 4 acres, respectively, have been omitted. No reasons for these omissions have been assigned in the Report, nor has the area been shown in the Form itself under the column "Excluded."

In Form No. 62, under "Other Revenue," the receipts are shown as amounting to Rs. 13,577, whereas it should be Rs. 12,577, as given in the statement in paragraph 83 of the Report.

The quantity (in cubic feet) of the timber mentioned in paragraph 73 has not been given, nor that of the fuel referred to in paragraph 74.

The wood alluded to in paragraphs 75 and 76 has not been shown in Form No. 54, nor have the 15,081 bamboos specified in paragraph 77 been entered in Form No. 55.

The revenue realized from grazing (Rs. 2,621), as given in paragraph 78, has not been included in Form No. 55.

The large quantity of timber given to right-holders free of cost, as detailed in para. 80, finds no place in Form No: 54.

In the Chief Commissioner's Resolution, under the heading "Coppicing," it is said that an area of 560 acres was cut over for the purpose of improving the growth of trees, but paras. 70 and 72 of the report show that a total area of only 140 acres was subjected to felling operations.

C. H. L.]

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PROGRESS REPORT

OF

FOREST ADMINISTRATION IN AJMERE-MERWARA, 1888-89.

No. 3400S., dated Mount Abu, 10th September 1889.

From—H. IRWIN, Esq., C.I.E., Secretary to the Chief Commissioner of Ajmere,
To—The Secretary to the Government of India, Revenue and Agricultural Dept.

I AM directed by the Chief Commissioner of Ajmere and Merwara to submit herewith the Annual Report of Forest Administration in Ajmere and Merwara for the year 1888-89, accompanied by a copy of the Resolution passed by the Chief Commissioner thereon.

Extract from the Proceedings of the Chief Commissioner of Ajmere, in the Public Works Department,—No. 3399 S., dated 10th September 1889.

READ—

Progress Report of Forest Administration in Ajmere and Merwara for the year 1888-89, by Mr. J. E. Barrett, Assistant Conservator of Forests, with a review thereon by the Commissioner of Ajmere and Merwara, received under cover of Commissioner's letter No. 86F., dated the 13th August 1889.

RESOLUTION.

Area and Boundaries.

There was no change during the year under review, either in the total areas or in the individual areas of the Ajmere and Merwara Government Forest Reserves, nor is any hope held out of this area being further increased.

The areas taken up by the Forest Department in Istimrar and Khalsa villages, are as follows:—

	Acres.
Jagir villages	4,093
Istimrar „	678
Khalsa „	84,493
TOTAL .	89,264

Village Reserves.

It is much to be regretted that no progress has been made in this direction. As pointed out by the Government of India in their Review on the last Administration Report, the extensive grazing to which the Forests of Ajmere and Merwara are, year after year, exposed, materially retards their further development, it is therefore very necessary that the matter of Village Reserves should receive particular attention on the part of the Forest Officer.

The Makhupura Village Reserve, which was stated in the last report to have been placed under the management of the Forest Department, had to be surrendered, as it was declared by a decree of the Civil Court to be the property of the Jagirdar. It appears that the zemindars had placed the Bir under the control of the Forest Department when the Jagirdar was a minor. The Commissioner, however, expresses a hope that the Jagirdar will be persuaded not to disturb the present arrangement. It is satisfactory to note, however, that the Assistant Commissioner has succeeded in inducing the villagers of Saradhua, to place a portion of their waste land under the management of the Forest Department. The villagers of Ajmere and

Merwara, apparently do not yet fully realize the advantages of Forest reservation, but the Chief Commissioner is sure that every encouragement will be given by the Commissioner and Assistant Conservator of Forests, to induce the villagers to give up portions of their waste land for Forest Reserves, the matter being one of great importance.

Village Birs.—It appears that the areas of village Birs, shown in the last report were not correct; the correct areas of Birs are now reported to be as follows :—

	Acres.
Ajmere	3,160
Merwara	8,433
TOTAL .	11,593

Boundary Pillars and Fencing.

No new boundaries were erected nor fencing constructed during the year under review. The only expenditure incurred in this direction was for repairs, which amounted to R73 only. It is hoped that in future the revenue will not be burdened by any great expenditure on fencing, &c., operations.

Record of Rights.

As previously reported, this important document was completed last year. The Assistant Conservator in his report states that it has proved of extreme use to him, in determining all matters connected with rights of villagers in Forest Reserves.

Surveys and annual Plans of Operations.

It is not clear from the Assistant Conservator's Report what progress has been made during the year in the work of survey. The report only says that four skeleton maps of all Forest Reserves are in hand.

The Forest operations were, as usual, carried out according to a pre-concerted plan, except in the case of Nagpahar Reserve. In this Reserve it is reported that there was an increase in the area of the improvement fellings.

General Protection and Breaches of Forest Rules.

Forest offences were more prevalent during the year under review than in the previous year. The total number of offences was 286 against 228. Out of this number 230 were compounded by the Forest Officer, for an amount of R361, or R1-9-0 per case. There were no acquittals in cases brought before the Magistrate, which shows that no ill-considered prosecutions were undertaken. Almost all the offences are reported to be of a petty nature.

There was a large increase in the number of cattle impounded for trespassing on Forest grounds. The number increased from 2,924 to 3,868. This increase is attributed to more honest and active working on the part of Foresters and guards. The fines from impounded cattle amounted to R434 against 299 during the previous year.

Forest Fires.

The year under report was most unfortunate in this respect. In all, five fires occurred during the year, burning an area of 466 acres. The Dewair Reserve suffered most, three fires occurring in it. By one fire, which is said to have been caused by sparks blown from the burning forest in Merwara, which adjoins, 400 acres were burnt in this Reserve, but fortunately no trees were

injured. In another of the fires 40 jamun trees are reported to have been badly singed. The results of the protective measures have not been as satisfactory as they ought to have been. It is hoped that the Assistant Conservator will give the greatest attention to the burning of fire lines. Special measures were adopted for the protection of 14 reserves, extending over an area of 79,426 acres, but the remaining five reserves, having a total area of 9,838 acres, were protected without the adoption of special measures. The total expenditure on fire protection amounted to R596, or 1·40 pies per acre, on area protected.

Grazing.

Grazing was not allowed to so great an extent as in the previous year; the number of cattle allowed to graze on payment of dues was only 16,292 against 36,259. The same number of cattle as in the previous year were, however, admitted free under the record of rights, and this number will not be increased.

Grass-cutting.

There was a large increase in the number of grass permits issued during the year. The number increased from 8,118 to 12,326. It appears that all the right-holders availed themselves of the privilege of cutting grass. This clearly manifests how important Forest Reserves are as sources of grass supply. The quantity and the value of grass so removed is reported to be 16,42,680 maunds and 67,083 rupees, respectively.

Natural re-production.

It is satisfactory to notice that results under this head are reported to be good. No new pattern areas were selected, but those already existing have received proper care, and due attention has been paid to the study of the progress of natural re-production.

Artificial re-production.

The results of this year were better than those of the previous year. The different sowings have in most cases been tolerably successful. The sowing of bamboo seed, however, proved a failure. It is reported that 20 seers of bamboo seed, received from the Central Provinces, were sown in Makerwali, Mohwabir, and Taragurh tracts, but nowhere did the seed germinate.

Transplanting is reported to have been carried out successfully. In all, 6,848 seedlings were transplanted, out of which 5,320 are reported to be doing well.

Coppicing.

This subject has also received due attention. An area of 560 acres was cut in Mohwabir, Madar, and Nagpahar Hills, for the purpose of improving the growth of trees.

Exotics.

Experiments under this head have been successfully carried out. The exotics in the Pushker Bír and Sendra Nurseries are reported to be doing well. The experiment with the date offsets received from Bussrah has so far not been successful, as of 132 plants received, only 16 are reported to be living. The Chief Commissioner is glad, however, to learn that a fresh supply of offsets has been asked for, and trusts that, with proper care and attention, they may turn out successfully.

Financial Results.

The gross Forest Revenue of the year amounted to R13,573, or R720 less than that of the year 1887-88. There was a large decrease under head "Grazing

and fodder grass," owing to much fewer cattle having been allowed to graze this year in the Forest Reserves. The decrease in receipts, however, is more than counterbalanced by a large saving in expenditure, which amounted to R15,676, or R3,222 less than that of the previous year. The deficit consequently has been reduced from R4,605 to R2,103. The result, on the whole, is satisfactory. The details of receipts and expenditure are given in the Assistant Conservator's report, and do not appear to call for any remarks.

General remarks.

No mention has been made by the Assistant Conservator regarding working-plans. It appears that this subject has not received any attention. The Assistant Conservator's attention is invited to this matter.

In Inspector General of Forests' demi-official Circular No. 6 of 2nd May 1889, it was requested that, in the Report of Forest Administration for 1888-89, a concise account might be given of what has been, and what is, contemplated to be done in the immediate future in the direction of introducing portable tramways for the extraction of forest produce. The Assistant Conservator remarks that nothing has been done or is likely to be done in the immediate future for the introduction of portable tramways. The Chief Commissioner concurs in this view. The country is so hilly that the cost of construction of any tramway would be very great; moreover, the sale of forest produce is not sufficiently extensive to necessitate the use of any conveyance other than the village carts, which are cheap and always available.

On the whole, the progress made during the year may be considered satisfactory.

ORDERS.

Ordered, that a copy of this Resolution, together with the original report and statements, be forwarded to the Government of India in the Revenue and Agricultural Department, under cover of a separate letter.

Ordered also, that a copy of the above Resolution be forwarded to the Commissioner of Ajmere and Merwara for information and guidance, and favour of communication to the Assistant Conservator of Forests.

Remarks by COLONEL G. H. TREVOR, M.S.C., *Commissioner and Conservator of Forests, Ajmere-Merwara, on the Forest Administration Report of Ajmere-Merwara for 1888-89, dated 13th August 1889.*

Areas and Boundaries.

No alterations have taken place in the areas of Forest Reserves, which stood as below:—

	Acres.
Khalsa	84,493
Jagir	4,093
Istimrar	678
TOTAL .	89,264

2. All the boundary pillars were kept in repair.

Village Reserves.

3. There has not been the progress that was expected under this head, but it is satisfactory to note that through the exertions of the Assistant Commis-

sioner, Ajmere, the villagers of Saradhua, after the close of the year, agreed to have a portion of their waste land reserved and managed by the Forest Department under certain conditions.

4. The Makhupura Reserve, which was brought under conservation by the Forest Officer with the consent of the villagers some time ago, has lately been declared by decree of a Civil Court to be the property of the Jagirdar, who, it is hoped, will be persuaded not to interfere with the arrangements which have been made for preserving it.

5. The instructions contained in para. 2 of letter No. 426F., dated 17th May 1889, from the Government of India, in the Revenue and Agricultural Department, regarding village reserves, will be attended to.

Fencing.

	R	a.	p.
* Ajmere . . .	49	2	9
Merwara . .	24	1	1
TOTAL .	73	3	10

6. No expenditure was incurred in constructing new fencing. Repairs were executed to old dry-stone walling and euphorbia fencing at a total cost of R73-3-10.*

General Protection and Breaches of Forest Rules.

7. The number of prosecutions rose from 50 to 56. Convictions were obtained in all cases; the percentage of convictions rose from 92 to 100. Of the cases tried and convicted by Magistrates, all of which occurred in the Merwara District, 77 per cent. were for unauthorized fellings, and the rest for other offences. In the Ajmere District no case was sent up to a Magistrate.

One hundred and seven persons were involved in the cases referred to above, against 100 in the preceding year.

8. The number of cases compounded by the Assistant Conservator increased from 188 to 230. This increase is attributed to Foresters and Guards working more actively and honestly in bringing offenders before the Forest Officer, instead of allowing them to escape.

9. Receipts from fines and forfeitures, including amounts realized by way of compensation, amounted to R418-13-10 against R301-3-0 in 1887-88.

10. The number of cattle impounded rose from 2,924 to 3,868, and the receipts from half the Pound Fund fines amounted to R433-8-0 as against R298-12-0 in the preceding year. This increase is also attributed to greater vigilance on the part of the protective staff.

Fire-protection.

11. There were five fires, involving an area of 466 acres against two, which spread over 12½ acres in 1887-88. This was unfortunate, but the only fire of any importance was one which occurred in the Dewair tract, having been communicated from Marwar jungle, close at hand, by a strong wind. It was extinguished before any real damage was done; 400 acres of inferior grass were burnt and nothing more.

12. The old fire lines were cut and burnt, and fire-watchers were entertained, at a cost of R596 against R665 in 1887-88.

Nine thousand eight hundred and thirty-eight acres, or about one-ninth of the total Forest area, were protected from fire without the adoption of any special measures.

Grazing and Fodder Grass.

13. This year only 16,292 cattle were allowed to graze on payment against 36,259 in 1887-88, as it was not considered advisable to permit more cattle to graze in the Government reserves.

One thousand two hundred and forty-five cattle were, according to the register of rights, allowed to graze free of charge.

14. Grass was freely cut by the right-holders, who took out 12,326 tickets for this purpose against 8,118 in the preceding year.

The quantity and value of grass removed by the right-holders are estimated at 16,42,680 maunds and R67,083, respectively.

Natural and Artificial Re-production.

15. The natural re-production of the local growth was good, both in Ajmere and Merwara Reserves. Seeds of Khair, Kanlai, Rohera, Arînj, Babûl, Nim and Bamboo were sown broadcast and in notches in various tracts.

About 60 per cent. of the Khair seed sown germinated, while germination of other sorts of seed varied from 20 to 40 per cent.

Bamboo seed, received from the Central Provinces, did not germinate at all. Presumably it was old and unfit for cultivation.

16. Six thousand eight hundred and forty-eight seedlings of various descriptions were transplanted in the several Forest tracts from the Pushker, Bir and Sendra Nurseries. Of these 5,320 are reported to be doing well.

17. Out of the date offsets received from Bussrah in 1886-87, only 16 are said to be alive in the Pushker Nursery. The Forest Officer (Mr. Barrett) apparently considers that the experiment has failed, and that it is not desirable to repeat it. I am more disposed to think that it has not received a fair trial, and requires more careful and judicious supervision, and have therefore lately asked for 100 more offsets, which, if carefully tended, ought to meet with a better fate than the last batch did.

18. The total expenditure on plantations amounted to R882 against R1,381 in the preceding year.

Communications and Buildings.

19. A small sum of annas 15 was spent in repairing a road in the Chang tract.

New chowkis were constructed in the Srinagar, Hokran and Nagpahar tracts, at a cost of R107.

The total expenditure under this head amounted to R354 against R462 in 1887-88.

Meteorological Observations.

20. The quantity of rain which fell within each Forest tract where a rain-gauge is kept, was found by measurement to be more than that registered outside the tract, the difference being as much as 6 and 7 inches in some places, though only a few cents in others.

21. The average spring level of the wells in the Mohwa, Bir and Danta Reserves registered in 1888 was a little less than that measured in the preceding year, owing, no doubt, to a decreased rainfall.

In the Rajgarh tract, on the other hand, the only well experimented on showed a higher spring level than in 1887. No explanation of this has been offered.

The meteorological observations recorded of the year call for no special remark.

Financial Results.

22. The financial results of the year are compared with those of the two previous years below—

	1886-87.	1887-88.	1888-89.
	R	R	R
Receipts	11,275	14,293	13,573
Expenditure . . .	20,744	18,898	15,676
Deficit .	9,469	4,605	2,103

The greater portion of the revenue was, as usual, derived from—

	R
(1) Firewood and charcoal	5,464
(2) Grazing and fodder grass	5,774

Under the first head there was a small decrease of R105, which does not call for any special remark.

The decrease of R1,750 under the second head is due to much fewer cattle having been allowed to graze this year, as noted above.

The total receipts of the year exhibit a decrease of R720; the expenditure also decreased by R3,222.

Free Grants to Right-holders and others.

23. Wood of an estimated value of R375 was supplied to right-holders and others free, for household and agricultural purposes.

General remarks.

24. The rainfall of the year (19·8 inches) was less than that registered in 1887 (21·1 inches).

25. The Assistant Conservator has made no mention in his report regarding the drawing up of a Working Plan for the Ajmere-Merwara Forests, nor has any separate report been received in this office on the subject. His special attention will be drawn to this matter.

Progress Report of Forest Administration in Ajmere-Merwara for the year 1888-89, by Mr. J. E. Barrett, *Assistant Conservator of Forests.*

Introduction.

1. *Village Birs.*—Full information regarding the number of "Birs," or grass lands in Khalsa villages, have been obtained from the Assistant Commissioner, Ajmere, and the correct figures stand as follows:—

Name of District.	No.	Area in acres.
Ajmere	4	3,160
Merwara	27	8,433
Total .	31	11,593

Introduction of portable tramways.

2. Nothing has been done, or is likely to be done in the immediate future, in the direction of introducing portable tramways for the extraction of forest-produce from the reserves of Ajmere and Merwara. Owing to the very hilly nature of the ground the cost of constructing a line would, in the first place, be enormous, and, moreover, as there are only two markets, *viz.* those of Ajmere and Beawar, in each of

which a limited quantity of wood for local consumption only can be disposed of, a tramway (the employment of which, on a small scale only, being possible) for the transport of forest-produce will scarcely be able to compete with the ordinary modes of conveyance of the country.

Areas taken up by the Forest Department in Jagir, Istimrar, and Khalsa villages.

3. The areas are as follows :—

Description.	Area in acres.	Remarks.
Jagir villages	4,093	
Istimrar	678	
Khalsa	84,493	
Total .	89,264	

CHAPTER I.

Area and Boundaries.

Area of reserves in the Division.

4. The total area of the Division (139 square miles) underwent no change during the year under report.

Record of rights in Forest Reserves.

5. The "Register of claims to Land or Rights to Forest Produce in Ajmere-Merwara," drawn up by Mr. R. S. Whiteway, Settlement Officer, was found to be a most useful and complete guide in determining all matters connected with the rights of villagers in or over the Forest Reserves.

"Village Reserves."

6. No additional lands were placed under Forest management during the year, as the zemindars were unwilling to accept the terms held out to them. The Makhupura "Village Reserve" was claimed by the Jagirdar of that village, and it was finally ruled by the Court that the Jagirdar was the rightful owner, and not the zemindars, who placed the Bir under the control of the Forest Officer. It appears that these zemindars were in hopes that, by getting the Forest Department to take charge of the Bir in their name, the Jagirdar, who was at the time a minor, would, later on, fail to establish his claim to the land. They were, however, disappointed; for the "Village Reserve" has been restored to the Jagirdar, who does not desire any further interference with the Bir on the part of the Forest Department. Endeavours are now being made to persuade the Jagirdar to accept the conditions on which the "Reserve" was formed by the Forest Department.

Area open to grazing.

7. No extension of the areas open to grazing in the Amner and Srinagar Reserves has been permitted. There are no similar rights to grazing in any of the other Forest Reserves.

Boundary pillars.

8. All the pillars round each Reserve in the Division have been kept in repair.

Fencing.

9. No fencing of any description was constructed during the year, as none was needed. The existing dry-stone walling and euphorbia fencing have been kept in thorough repairs.

CHAPTER II.

Surveys and Annual Plan of Operation.

Surveys.

10. Complete 4-inch skeleton maps of all the Forest Reserves are now in hand.

Annual Plan of Operation.

11. All works proposed were carried out. There was, however, an increase in the area of the improvement fellings in the Nagpahar Reserve.

Measurement of growing trees.

12. Girth measurements of trees in the sample plots at Sendra Nursery were taken in December. The average results of three principal species, as compared with those of the same species shown last year, are given below—

Species.	No. of trees.	Average annual girth increment.	
		On 1st December 1888.	On 1st December 1887.
Nim	22	1·74	1·45
Babul	11	2·00	0·41
Kalia Siris	15	2·01	1·65

CHAPTER III.

Protection and Improvement of Forests.

(*i*) *Establishment.*

Controlling Staff.

13. Mr. J. E. Barrett, Assistant Conservator, held charge of the Division from 8th April 1888.

Executive and Protective Establishment.

14. Forest Ranger Nandmal was transferred in May from Beawar to Todgurh and placed in charge of the Todgurh Range. He worked well.

15. The Ranges of Beliawas and Chang in the Merwara District were placed under Foresters, who received orders direct from the Assistant Conservator.

16. The Foresters in the Division worked well with the exception of one, who was dismissed for dereliction of duty.

Office Establishment.

17. Babu Ausafali, clerk, worked satisfactorily throughout the year, and took great care in preparing the meteorological returns submitted monthly. The other members forming the office establishment have also done good work.

(*ii*) *General Protection and Breaches of Forest Rules.*

18. The following statement shows the offences (*i.e.* the number of cases tried by the Court) of the year with those of the previous year :—

Year.	Convictions.	Acquittals.	Total
1887-88	46	4	50
1888-89	56	...	56

19. The cases include the following :—

Injury to Forest by fires	4
Unauthorized fellings	43
Illicit grazing	7
Other offences	2
Total .	56

Cases compounded.

20. The statement given below shows particulars of the cases compounded by the Assistant Conservator—

Division.	No. of offences in 1887-88.	1888-89.			Average.	
		No. of offences.	No. of offenders.	Amount.	Per case.	Per man.
				R	R a. p.	R a. p.
Ajmere-Merwara . .	188	230	454	361	1 9 1	0 12 9

Cattle impounded.

21. During the year 3,868 head of cattle were impounded. Particulars are given in the following statement:—

District.	Cattle impounded.		Remarks.
	1887-88.	1888-89.	
Ajmere	1,115	1,445	
Merwara	1,809	2,423	
Total .	2,924	3,868	

Strict supervision resulted in the more honest working of the members forming the Protective Establishment, and hence the increase in the number of cattle impounded.

Half-pound fines.

22. The fine from cattle impounded and credited to Forests amounted to R433-8-0 against R298-12-0, realized during the previous year.

(*iii*) *Forest Fires.*

Forest Fires.

23. During the year five fires occurred, the area burnt being 466 acres. Ten acres were burnt in Dilwara Bir. The fire broke out on the side of the road which passes through the tract, and so it can reasonably be supposed that it was caused (probably accidentally) by some wayfarer, who, however, could not be traced. All the grass, excepting the short inferior kind, had previously been cut, so that little or no damage was done.

24. One acre was burnt in Taragurh Reserve. Four Europeans were going up to the top of Taragurh hill by the main road, when one of them carelessly threw out the contents of his pipe, which set fire to the short grass. They exerted themselves in the work of extinguishing the fire before the arrival of the Forest Guard on the spot.

25. Three fires occurred in the Dewair Reserve during the year under report: one on the 25th February, when 30 acres were set on fire owing to carelessness on the part of two villagers of Marwar, who kindled a fire for the purpose of lighting their *hookas*. The men were prosecuted and fined R5 each. The short inferior grass was burnt, but no further injury was done.

26. The second fire occurred on the 28th April 1889, resulting in an area of about 400 acres being burnt. The fire was caused by sparks blown from

the burning forest in Marwar, which lies contiguous to the Dewair Reserve. Although the fire-line had previously been carefully burnt, it did not prevent the strong hot winds from carrying the fire from the adjoining Marwar Forest into the Reserve. Some alteration, in the direction taken by the fire-line, will be made after the rains, and this measure will lessen the risk of fire originating again from this source. Fortunately no trees were injured, and only the inferior grass left uncut was burnt.

27. The third fire occurred on the 7th May 1889, burning an area of about 25 acres. Enquiries were promptly instituted, but it was past finding out how this fire originated. The grass on the area was burnt, and about 40 trees, chiefly jamun, were badly singed.

28. No new fire-lines were burnt during the year. Special measures were adopted for the protection of 14 Reserves, having a total area of 79,426 acres. The remaining five reserves in the Division, having a total area of 9,838 acres (not 9,815 acres, as shown in previous reports) were protected without the adoption of special measures.

Fire-lines.

29. The expenditure on fire-protection to 30th June 1889 amounts to ₹596, or 1·40 pies per acre.

Expenditure on fire-protection.

(*iv*) *Grazing and Fodder Grass.*

30. The number of cattle admitted to grazing on payment is shown in the statement given below—

Division.	Cows and bullocks.	Buffaloes.	Total for 1888-89.	Total for 1887-88.
Ajmere-Merwara	14,378	1,914	16,292	36,259

31. The hamlets allowed to graze 1,245 head of cattle free of dues in certain Reserves, mentioned in para. 33 of last year's report, will, under the record of rights, be permitted to graze the same number of cattle, free of dues, every year. No increase in the number of cattle will be allowed.

Grazing free.

32. In the Ajmere District the right-holders cut grass in the Reserves for a period of six weeks, beginning from the 26th of November.

Grass-cutting.

33. In the Merwara District the right-holders were allowed to cut grass, as usual, for four months, from the beginning of November to March.

34. It is satisfactory to note that all the right-holders in Merwara availed themselves of the privilege of being allowed to cut grass for fodder in all the Reserves, and hence the increase in the number of tickets issued.

35. The number of grass permits issued during the year is shown below—

Year.	No. of Tickets.		Total.
	Ajmere.	Merwara.	
1887-88	6,000	2,118	8,118
1888-89	6,000	6,326	12,326

(v) *Natural Re-production.*

Seedlings.

36. In nearly all the Ajmere Forests, natural re-production of Dhaukra (*Anogeissus rendula*) and Saler (*Boswellia thurifera*) was good, while that of Arinj (*Acacia leucophlœa*), Kumpta (*Acacia rupestris*), Kejra (*Prosopis spicigera*) and Kalia (*Albizzia odoratissima*) was fairly so.

37. In the Merwara Reserves the re-production of Dhaukra, Saler, Gol (*Ordina Wodier*), Cherril (*Ulmus integrifoliaitals*) and Jamun (*Eugenia jambolana*) from seed was most successful.

Pattern areas.

38. The influence of protection on forest growth in the eight pattern areas in various reserves of the division is being carefully studied.

39. In some of the areas first selected the change in natural re-generation from seed is most striking, and there is no doubt that in a few years' time the trees will form a dense mixed crop.

(vi) *Artificial Re-production.*

Khair.

40. (*a*) *Sowings.*—Eleven maunds of Khair seed, received from the Schoo Circle, North-Western Provinces, were sown broadcast in certain plots in the following Reserves :—

Kotra	Merwara	District.
Mohwabir	Ajmere	„
Makerwali	„	„
Nagpahar	„	„
Taragurh	„	„
Danta	„	„
Srinagar	„	„

About 60 per cent. of the seed sown germinated, and the seedlings are doing well.

Kanlai.

41. Kanlai seed was sown in notches in the following Reserves :—

Reserve.	Area sown.	Remarks.
	Acres.	
Mohwabir	1½	
Makerwali	½	
Nagpahar	½	
Taragurh	½	
Kotra	2	

The seeds are germinated, but only 40 per cent. of the seedlings are now alive.

Rohera.

42. About 12 acres were sown in the Dilwara and Chang-gate Birs. Thirty per cent. of the seedlings are doing well.

Arinj.

43. Arinj seed was sown in—

	Acres.
Chang Reserve	13
Srinagar „	1
Rajgurh „	1

Only about 25 per cent. of the seedlings are alive.

Babul.

44. Babul seeds were sown in—

		Acres.
Ajmere	Srinagar	1
	Rajgurh	2
	Mohwabir	½
Merwara	Chang	1
	Dilwara Bir	5

About 30 per cent. are doing well.

Nim.

45. About 4 acres were sown in Mohwabir and 2 acres in Makerwali. The seeds were dibbled in, but only 20 per cent. are progressing favourably.

Bamboo.

46. About 20 seers, bamboo seed, received from the Central Provinces, were sown in Makerwali, Mohwabir and Taragurh tracts, but nowhere did the seed germinate.

Planting in the Makerwali Hokran Block.

47. (*b*) *Planting.*—The following from the Pushkar Nursery were planted out :—

Description.	No. of plants.	Remarks.
Arjun	330	All doing well.
Shishum	2,350	,,
Mangoes	275	260 are alive.
Chandan	50	10 ,,
Chil	35	20 ,,

Planting in the Danta Block.

48. The following were transplanted from the Bir Nursery :—

Description.	No. of plants.	Remarks.
Shishum	3,204	2,091 are alive.
Sain	125	100 ,,
Cherril	50	22 ,,
Chandan	14	8 ,,
Tar-charbi	12	8 ,,
Nim-chumele	50	31 ,,

Planting in the Chang Reserve and the Dilwara Bir.

49. The following were transplanted from the Sendra Nursery :—

Description.	No. of plants.	Remarks
Cherril	140	50 are doing well.
Mangoes	120	30 ,,
Aritha	11	5 ,,
Sai-Tut	11	5 ,,
Kachnar	47	All withered.
Gunda	24	,,

50. (*c*) *Improvement Cuttings.*—Areas of 10 acres each were cut in Mohwabir and Madar Hill and 60 acres in Nagpahar. The fellings were made for the purpose of improving the growth.

51. There were during the year three Nurseries in the Division, those of Pushkar and Bir in the Ajmere District, and Sendra in Merwara. All the Nurseries are situated close to the forests which they have to serve.

Nurseries.

52. (*d*) *Exotics in Nurseries.*—In the Pushkar Nursery Eucalyptus, Tarcharbi, Chandan, and Grevillia were sown, and have successfully germinated.

53. In the Bir Nursery Chir, Date and Bahera seed were sown.

54. In the Sendra Nursery Grevillia, Sain, Casuarina, Date, Chandan and Chil seed were sown.

Eucalyptus.

55. Twenty-three plants of *Eucalyptus rostrata* are now thriving in the Pushkar Nursery.

Chandan.

56. Two hundred plants are in the Pushkar Nursery, and 52 in the Sendra Nursery are ready for planting out.

57. Nineteen plants in the Pushkar Nursery, and 105 in the Sendra Nursery, are progressing favourably. The plants are from 1 foot to 1½ feet in height.

Grevillia.

Bahera.

58. In the Bir Nursery 40 plants are coming on well. The greater number of them are one foot in height.

59. In the Sendra Nursery there are 158 plants, which, however, do not appear to thrive. In the Bir Nursery 231 plants are in good condition, and range from 6 inches to 1 foot in height.

Chil.

60. Fifty-three seedlings in the Bir Nursery are flourishing, 18 of these having reached a height of 1½ feet. In the Sendra Nursery 240 seedlings are doing well, but will not be ready for planting out in the forest for another two years at least.

Date.

61. Out of the 132 plants from Bassrah, received during the year 1886-87, alluded to in para. 51 of that year's Report, only 16 (planted in the Pushkar Nursery) are now alive, but, as these are not thriving, it was not considered advisable to repeat the experiment, which is an expensive one. The 132 plants cost R280-14-0, or R2-2-0 each.

62. Eleven plants are ready for planting out. Some are two feet in height.

Casuarina.

63. Six Vine and six Apricot plants received from the Botanical Gardens at Saharanpur in January, were put out in the Pushkar and Bir Nurseries. Of these, one Apricot plant withered shortly after it was received; the rest, however, are thriving.

Fruit trees.

(*vii*) *Communications and Buildings.*

64. No new roads were made during the year.

Roads.

65. A pucca chowki for a Forest Guard was constructed at Naka in the Srinagar Reserve at a cost of R65. Two kucha-pucca chowkies were also built during the year, one in the Hokran, and the other in Nagpahar Reserve. The chowkies cost R22 and R20, respectively. All chowkies in the division were kept in thorough repair.

Buildings.

66. The following gives the total cost under this head :—

	R	a.	p.
A VII*a*.—Roads and Bridges	0	15	0
A VII*b*.—Buildings	112	6	9
A VII*c*.—Other works	240	9	6
TOTAL .	353	15	3

CHAPTER IV.

Temperature and humidity.

67. Meteorological observations of Ajmere Nursery, Mohwabir and Râwli were taken and recorded. The results are given in Appendices B, C, D.

Rainfall.

68. Appendix A shows the rainfall for the year in the Division.

Experiments to determine the water level in wells.

69. The results of these experiments are given in Appendices E, F, G.

CHAPTER V.

YIELD AND WORKING.

(*i*) *Departmental Operations.*

70. The statement below shows the quantity of firewood removed during the year—

Locality.	Description	Area in acres.	Quantity.	
			Mds.	C. ft.
Chang	Clearances . . .	60	5,325	21,300

As purchasers were got to cut and remove wood, it was not considered necessary to continue operations by departmental agency. This accounts for the small quantity shown in the above statements.

71. The Police Department were supplied with 484 maunds of grass, the revenue realized being R176.

(*ii*) *Removal of Produce by Purchasers.*

72. Forms Nos. 54 and 55 show all information under this head.

Timber.

73. Timber for household purposes was sold to non-right-holders at the fixed rates, the revenue realized being R127-11-0.

Fuel.

74. In the Ajmere District the following standing wood was sold from certain Reserves :—

Name of Reserves.	Area in acres.	Amount realized.	Remarks.
		R	
Mohwabir	10	80	
Madar Hill	10	52	
Nagpahar	60	905	
TOTAL .	80	1,037	

75. The accompanying table shows the quantity of standing wood removed from the forests in Merwara—

Name of Reserve.	Quantity.		Rate.		Amount realized.	Remarks
	Camel-loads.	Maunds.	At	Per		
			₹ a. p.		₹ a. p.	
Todgurh . .	3,000	...	0 5 7	Camel-load	1,046 14 0	
Amner .	...	200	10 maunds	rupee .	20 0 0	
Total .	3,000	200	...	...	1,066 14 0	

76. Dry wood sold during the year realized a sum of ₹2,540.

Bamboos.

77. The statement below shows particulars of bamboos sold during the year :—

Name of Reserve.	Number sold.	Rate.	Amount realized.	Remarks.
			₹ a. p.	
Nagpahar	20	₹ 0-1-0 each	1 4 0	
Taragurh	5,000	„ 2-8-0 %	125 0 0	
Todgurh	6,200	„ 1-7-0 %	89 2 0	
Ditto	11	By auction	0 4 0	
Dewair	3,400	„ 1-8-0 %	51 0 0	
Amner	450	„1-10-0 %	7 5 0	
Total .	15,081	...	273 15 0	

Grass and grazing.

78. The revenue realized from grass and grazing is given below—

Year.	Grass.	Grazing.	Total.	Remarks.
1887-88	1,920	5,604	7,524	
1888-89	3,153	2,621	5,774	

Minor Forest Produce.

79. The total revenue from this source was ₹568-4-9 against ₹318-11-0, realized during the previous year.

(*iii*) *Free Grants.*

80. The Table below shows the quantity of timber given to right-holders, free of cost; the estimated value being ₹375—

Description of wood.	1887-88.	1888-89.			Estimated value.	Remarks.
		Right-holders.	Others.	Total.		
					₹	
Jungle poles for household purpose . . .	8,457	6,671	422	7,093	270	
Small wood for household purpose . . .	...	113	37	150	10	
Ploughs, &c., for agricultural purpose . . .	580	680	...	680	95	
Fuel . . Mds.	258	...	...	...	...	
Total .	...	7,464	459	7,923	375	

81. Grass also was cut by right-holders, each man, in both the Ajmere and Merwara Districts, being supplied with a permit. The total number of bundles removed from the Reserves being 16,42,680 and the estimated value R67,083.

Grass.

CHAPTER VI.

Financial Results.

82. The accompanying statement gives the financial results of the year as compared with those of the two previous years—

Budget Heads.		1886-87.	1887-88.	1888-89.	Remarks.
		R	R	R	
Receipts		11,275	14,293	13,573	
Expenditure	A.—Conservancy and Works	81,281	5,887	2,932	
	B.—Establishment	12,463	13,011	12,744	
	Total	20,744	18,898	15,676	
	Deficit	9,469	4,605	2,103	

Principal heads of Receipts and Expenditure.

83. Arranged under the three main heads, the receipts and charges of the year compare as follow with those of the previous year:—

Year.	I. Timber and other removed by Government agency.		II. Other revenue.		Formation, Protection and Improvement of Forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.		Receipt.	Charges.	
	R	R	R	R	R	R	R	
1887-88	3,120	1,690	11,173	5,211	11,997	14,293	18,898	
1888-89	996	549	12,577	5,098	10,029	13,573	15,676	

84. The revenue is less than that of last year by a small amount of R720, for which no special remark seems called for.

Revenue.

Expenditure.

85. The expenditure during the year is less than that of the previous year by R3,222, and the deficit is the smallest yet shown.

Form No. 49.

Area of Reserved Forests, 1888-89.

Division or Range.	Civil District or Territory.	Name of Forest.	Area on 1st April 1888.		Added during the year.	Excluded, or transferred to other heads.	Area on 1st March 1889.		No. and date of Notification of addition or transfer	Remarks.
			Acres.	Equivalent in square miles	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ajmere-Merwara	Ajmere	Mohwabir and Madar Hill	2,736	4	...	...	2,736	4		
		Nagpahar	2,479	4	...	...	2,479	4		
		Taragurh Valleys	1,226	2	...	...	1,226	2		
		Srinagar and Bir	3,623	6	...	...	3,623	6		
		Rajosi	1,152	2	...	...	1,152	2		
		Danta	1,580	3	...	...	1,580	3		
		Rajgurh	2,199	3	...	...	2,199	3		
		Makerwali Hokran	2,675	4	...	...	2,675	4		
		TOTAL	17,670	28	...	...	17,670	28		
	Merwara	Chang	2,947	5	...	...	2,947	5		
		Hattun and Sheopura	2,771	4	...	...	2,771	4		
		Beliawas and Taragurh	3,336	5	...	...	3,336	5		
		Todgurh and Barakhan	33,964	53	...	...	33,964	53		
		Dilwara and Chang Birs	281	...	...	...	281	...		
		Borwar-Kotra and Siliberi	4,660	7	...	...	4,660	7		
		Anspahar	1,282	2	...	...	1,282	2		
		Dewair	12,968	20	...	...	12,968	20		
		Banjari-Mandlan	4,731	8	...	...	4,731	8		
		Amner	4,654	7	...	...	4,654	7		
		TOTAL	71,594	111	...	...	71,594	111		
		GRAND TOTAL	89,264	139	...	...	89,264	139		

Form No. 52.

Prosecutions for breaches of Forest Rules during 1888-89.

Forest Division and Civil District.	Cases pending from 1887-88.	NEW CASES OF THE YEAR.					Total cases.	DISPOSED OF DURING THE YEAR.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling, or appropriation of wood and minor forest-produce.	Grazing without permission, or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ajmere District	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Beliawas	...	...	1	1	...	2	2	2	6	...	2	2	8	...
Sheopura	...	...	1	...	...	1	1	1	2	...	...	1	2	...
Chang	...	...	13	3	...	16	16	16	21	...	...	16	21	...
Dewair	...	2	8	...	...	10	10	10	20	...	...	10	20	...
Todgurh	...	2	18	3	...	23	23	23	49	...	1	23	50	...
Amner	...	...	1	...	1	2	2	2	3	...	...	2	3	...
Banjari-Mandlan	...	...	1	...	1	2	2	2	3	...	...	2	3	...
Total .	...	4	43	7	2	56	56	56	104	...	3	56	107	...

Form No. 51.

Area of Forest Tracts protected from fire during the dry Season 1869.

Division.	Forest Tracts.	Year in which protection commenced.	Year actually protected up to 16th June 1868.	During dry season of 1869.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failures.	Actually protected.		
	Area protected by special measure.						R	
Ajmere	Nagpahur	1880	2,479	2,479	...	2,479	21	
	Taragurh Valleys	1874	1,226	1,226	1	1,225	18	
	Rajosi	1880	1,152	1,152	...	1,152	26	
	Danta	1882	1,580	1,580	...	1,580	20	
	Rajgurh	1884	2,199	2,199	...	2,199	4	
Merwara	Chang	1881	2,935	2,947	...	2,947	33	
	Sheopura	1882	2,771	2,771	...	2,771	9	
	Beliawas	1874	3,336	3,336	...	3,336	35	
	Todgurh	1874	33,964	33,964	...	33,964	245	
	Borwar-Kotra	1882	4,137	4,137	...	4,137	32	
	Anspahar	1877	1,282	1,282	...	1,282	26	
	Dewair	1881	12,968	12,968	455	12,513	80	
	Banjari-Mandla	1884	4,731	4,731	...	4,731	22	
	Amner	1884	4,654	4,654	...	4,654	25	
	Total	...	79,414	79,426	456	78,970	596	
	Area protected without the adoption of special measures.							
	Mohwabir and Madar Hill	...	2,736	2,736	...	2,736	...	
	Srinagar	...	3,623	3,623	...	3,623	...	
	Makerwali	...	2,675	2,675	...	2,675	...	
	Dilwara and Chang Birs	...	281	281	10	271	...	
	Silibera	...	523	523	...	523	...	
	Total	...	9,838	9,838	10	9,828	...	
	GRAND TOTAL	...	89,252	89,264	466	88,798	596	

Form No. 52.

Area of Plantations, 1888-89.

Division.	Name of Plantation.	Area in Acres.				Receipts	Charges	Remarks.
		On 1st April 1888.	Added during the year.	Excluded during the year.	Area on 31st March 1889.	of the year.		
						R	R	
	Out of the area taken up under the Regulation.							
	Mohwabir and Madar Hill	62	8	...	70	...	50	
	Nagpahar	20	1	...	21	...	...	
	Taragurh Valleys	63	3	...	66	...	...	
	Srinagur	11	7	...	18	...	...	
	Danta	27	3	...	30	...	120	
	Rajgurh	2	3	...	5	...	...	
	Makerwali Hokran	28	5	...	33	...	64	
	TOTAL	213	30	...	243	...	234	
AJMERE-MERWARA	Chang	20	2	...	22	...	...	
	Hatan and Seopura	30	...	...	30	...	...	
	Beliawas	12	...	...	12	...	...	
	Todgurh	47	...	...	47	...	...	
	Borwar-Kotra	19	11	...	30	...	...	
	Dilwara and Chang Birs	71	9	...	80	...	2	
	Banjari-Mandlan	3	...	...	3	...	...	
	Dewair	...	...	...	...	...	...	
	TOTAL	202	22	...	224	...	2	
	Area not taken up under the Regulation.							
AJMERE	Shikast Masjid	6	...	...	6	...	20	
MERWARA	Parade Plantation	8	...	...	8	...	...	
	TOTAL	14	...	...	14	...	20	
	Nurseries.							
AJMERE	Pushkar	4	...	...	4	278	260	
	Bir	4	...	...	4	12	136	
MERWARA	Sendra	...	...	...	...	43	170	
	General	...	...	...	...	...	60	
	TOTAL	8	...	...	8	333	626	
	GRAND TOTAL	437	52	...	489	333	882	

Form No. 54.

Outturn of Timber and Firewood during the year 1888-89.*

Division.	Description of materials.	Outturn in cubic feet								Remarks.
		Selection fellings	Clearances.	Thinnings.	Total	Removed by				
						Government Agency.	Purchasers.	Free Grants	Right-holders.	
Ajmere-Merwara.	Firewood	...	125,880	...	125,880	21,300	104,580	...	...	The measurements given are approximate.
	Dry wood	...	...	...	101,600	...	101,600	...	...	Free grants were made of standing wood, for which no measurement can be given.
	Total	...	125,880	..	227,480	21,300	206,180	...	...	

* Charcoal should be shown by its equivalent in firewood

Form No. 55.

Outturn of Minor Forest Produce during the year 1888-89.

Division.	Description of Produce.	Produce removed or utilized.										Remarks.
		By Government Agency		By Purchasers.		By Free Grants.		By Right-holders.		Total.		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity	Value.	
		Mds.	R		R				R			
Ajmere-Merwara.	Grass	484	176	By auction	3,153	...	...	16,42,680	67,083	...	70,412	
	Fruits	...	...	Ditto	392	...	...	...	...	...	568	
	Honey and Wax	...	...	Ditto	75							
	Miscellaneous	...	...	Ditto	101							
	Total	...	176	...	3,721	...	...	...	67,083	...	70,980	

Form No. 56.

Account of Timber and other Produce cut or collected by Government Agency and brought to Sale Depôts, or sold locally during the Year 1888-89.

Particulars.	No. or quantity.	Cubic feet	Total of each head.		Particulars.	No or quantity.	Cubic feet.	Total of each head.	
			No. or quantity.	Cubic feet.				No. or quantity.	Cubic feet.
	Mds. Srs.		Mds. Srs.			Mds. Srs.		Mds. Srs.	
					Firewood and Charcoal.				
Balance on hand—									
Received during the year—					*Sold locally—*				
Green-wood	5,324 25	...	5,324 25	...	Green-wood	5,324 25	...	5,324 25	...
Total .	5,324 25	...	5,324 25	...	Total	5,324 25	...	5,324 25	...

Form No. 58.

Summary of Revenue of the different Divisions during 1888-89.

RECEIPTS.

	R	a.	p.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY :—			
a. Timber	.....		
b. Firewood and charcoal	820	1	5
c. Bamboos	.. ...		
d. Sandal-wood	.....		
e. Grass and other minor produce	176	0	0
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS :—			
a. Timber	127	11	0
b. Firewood and charcoal	4,643	15	9
c. Bamboos	273	15	0
d. Grazing and fodder grass	5,774	7	1
e. Other minor produce	568	4	9
III.—CONFISCATED DRIFT AND WAIF WOOD	.....		
IV —REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT :—			
a. Duty on foreign timber and other forest produce	.....		
b. Revenue from shared and private forests	.....		
V.—MISCELLANEOUS :—			
a. Fines and forfeitures	852	5	10
b. Refunds	9	8	0
c. Other sources	327	5	6
TOTAL RECEIPTS	13,573	10	2

Summary of Expenditure of the different Divisions during 1888-89.

EXPENDITURE.

A.—CONSERVANCY AND WORKS.

I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY :—			
a. Timber	.....		
b. Firewood and charcoal	548	8	5
c. Bamboos	....		
d. Sandal-wood	.....		
e. Grass and other minor produce	.....		
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS	4	12	0
III.—DRIFT AND WAIF WOOD AND CONFISCATED FOREST PRODUCE	.....		
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT :—			
a. Duty on foreign timber and other forest produce	.....		
b. Revenue from shared and private forests	.....		
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT	.....		
Carried over	553	4	5

	R	a.	p.
Brought forward .	553	4	5
VI.—Live stock, stores, tools and plant :—			
a. Purchase of cattle	.....		
b. Feed and keep of cattle	25	10	0
c. Purchase of stores, tools and plant	154	13	0
VII.—Communications and Buildings :—			
a. Roads and Bridges	0	15	0
b. Buildings	112	6	9
c. Other works	240	9	6
VIII.—Demarcation, improvement and extension of forests :—			
a. Demarcation	3	9	6
b. Compensation for land and rights	.....		
c. Surveys and working plans	0	5	0
d. Sowing and planting	882	1	2
e. Protection from fire	763	7	6
f. Other works	73	3	10
IX.—Miscellaneous :—			
a. Refunds	27	3	4
b. Law charges	94	8	4
c. Other charges	.....		
Total A.—Conservancy and Works .	2,932	1	4

B.—Establishments.

I.—Salaries :—			
a. Conservators	.....		
b. Superior officers	4,952	7	7
c. Subordinate forest and depôt establishments	4,411	15	3
d. Office establishments	1,370	4	1
e. Deputation and special allowances	.....		
II.—Travelling Allowances :—			
a. Conservators	.....		
b. Superior officers	1,188	12	0
c. Subordinate forest and depôt establishments	191	12	0
d. Office establishments	49	15	7
III.—Contingencies :—			
a. Stationery	24	7	9
b. Carriage of tents and records	145	12	2
c. Rents, rates and taxes	182	10	0
d. Pay of police guards	.....		
e. Official postage	68	1	6
f. Sundries	158	5	9
Total B.—Establishments .	12,744	7	8
Grand Total of Expenditure .	15,676	9	0

JAS. TAYLOR,

Asstt. Comptroller-General (Forests).

Form No. 59.

Account Current for the year 1888-89.

Dr.	R	a.	p.	Cr.	R	a.	p.
To Cash Balance	11	4	1	By three Refunds and Drawbacks—Revenue, Refunds or Forest	27	3	4
„ VIII.—Assessed Taxes—							
Income Tax—Deductions from salaries	153	15	4	„ Expenditure as per Annual Summary, Form No. 58	15,649	5	8
„ Revenue as per Annual Summary, Form No. 58	13,573	10	2	„ Deposits	.....		
„ Service Funds—							
Civil Fund—Ordinary, Bengal	.....			„ Forest Cash Remittances—Local—			
„ „ Additional, Bengal	.....			Remittances to Treasuries	13,610	13	8
Military Fund—Bengal	.....			Inter-Divisional Transfers	.....		
„ „ Madras	.....			„ Advances recoverable	787	15	6
„ Orphan Fund—Bengal	.....			„ Suspense	.....		
Uncovenanted Service Family Pension Fund—Bengal	.....			„ Account Current (other Governments)—			
General Family Pension Fund	.....			Remittances to the Government of Central Provinces	450	0	0
Hindu Family Annuity Fund	.....			„ Inter-Departmental Transfers—			
„ Deposits	.....			Public Works Department (other Branches)	20	0	0
„ Forest Cash Remittances—Local—				Military Department	.....		
Forest cheques drawn	15,515	0	10	Civil Department	.....		
Inter-Divisional Transfers	.....			„ Cash Balance	0	12	0
„ Advances recoverable	1,268	9	3				
„ Suspense	.....						
„ Account Current (other Governments)—							
Remittances from Government of North-Western Provinces and Oudh	23	2	6				
Ditto ditto Central Provinces	0	8	0				
„ Inter-Departmental Transfers—							
Public Works Department	.....						
Military Department	.....						
Civil Department—							
Jail	.....						
Mathematical Instrument Department	.....						
Miscellaneous	.....						
Total	30,546	2	2	Total	30,546	2	2

JAS. TAYLOR,

Assistant Comptroller-General (Forests).

Form No. 61.

Outstandings and Liabilities on account of Contractors and Disbursers for 1888-89.

Division.	Department Debtor.			Department Creditor.			Balance Due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (Outstandings).	By Department (Liabilities).	
	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p.	₹ a. p	
Ajmere-Merwara .	94 4 3	1,268 9 3	1,362 13 6	596 11 11	787 15 6	1,384 11 5	25 0 8	3 2 9	
Total .	94 4 3	1,268 9 3	1,362 13 6	596 11 11	787 15 6	1,384 11 5	25 0 8	3 2 9	

Form No. 62.

Financial results of the year 1888-89.

Division.	Timber and other produce removed from the forests by Government Agency.		Other revenue.		Formation, protection and improvement of forests.	Total.		Remarks.
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
	₹	₹	₹	₹	₹	₹	₹	
Ajmere-Merwara .	996	549	13,577	5,098	10,029	13,573	15,676	
Total .	996	549	13,577	5,098	10,029	13,573	15,676	

APPENDIX A.

Statement showing Rainfall registered during the year 1888.

Months.	Morwabir No. 1.		Morwabir No. 2.		Madar Hill.	Rajgurh.		Danta.		Dilwara Bir.		Nagpahar.		Bajrangurh.
	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	·42	·37	·41	·41	·38	·55	·75	·61	·61	·65	·58	·37	·25	·27
February	1·68	2·11	1·29	1·48	1·59	·16	·15	·42	·32	·8	·10	1·35	1 64	1 42
March	...	...	...	...	...	...	...	...	...	·13	·7	...	...	...
April	...	...	...	...	...	...	...	...	...	...	...	...	...	...
May	...	...	...	...	...	...	...	...	...	...	...	...	...	...
June	1·19	1 35	·79	·60	·90	·91	·94	·48	·57	·48	·38	1·14	·68	1·15
July	7·9	6·54	9·2	6·28	6·67	3·13	3·46	4·19	3·94	2·43	2·86	5·39	4·40	3 34
August	15·4	12·10	15·69	13·56	13·11	13·42	12·83	11·62	11 69	14·40	12·30	15·78	10·20	12 54
September	...	...	...	...	...	...	...	...	...	...	...	...	...	...
October	...	...	...	...	...	·51	·50	...	...	...	...	...	...	...
November	·81	·73	·80	·60	·60	·17	·13	·16	·23	...	...	·39	·37	·60
December	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total for 1888	26·23	23 20	28	22 93	23 25	18·85	18·76	17·48	17·36	18·17	16·29	24·42	17 74	19·32
Total for 1887	25·73	24 22	26·72	23·86	21·30	15·72	15·34	21·66	22·18	23·51	20·41	25·86	16 68	19·59

APPENDIX B.

METEOROLOGICAL OBSERVATIONS (STATION A).

Results of Meteorological observations conducted at the Ajmere Forest Nursery, 1,640 feet above sea-level. (Observatories of the standard pattern.. Cages with instruments 4 feet above ground.)

Calendar year 1888.	Dry minimum.		Dry maximum.		Daily means.		Mean Vapour Tension.						Mean Relative Humidity.						Rainfall.
							Under trees.			Outside trees.			Under trees.			Outside trees.			
	Under trees.	Outside trees.	Under trees.	Outside trees.	Under trees.	Outside trees.	From Minims.	At 10 hours.	At 16 hours.	From Minims.	At 10 hours.	At 16 hours.	From Minims.	At 10 hours.	At 16 hours.	From Minims.	At 10 hours.	At 16 hours.	
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	39·8	39·3	68·1	70·7	53·3	53·7	·193	·195	·219	·198	·226	·242	77	40	35	80	45	38	0·23
February	48·3	47·6	75·0	77·1	61·4	61·7	·274	·309	·314	·270	·306	·304	79	49	38	80	48	36	2·44
March	58·6	58·6	90·0	91·9	74·7	75·4	·350	·372	·376	·354	·385	·404	71	36	28	72	36	29	0·01
April	69·9	69·1	97·9	100·0	84·0	84·3	·376	·438	·449	·396	·446	·475	47	34	26	47	33	26	...
May	75·4	74·9	102·6	105·7	82·9	89·8	·416	·455	·423	·401	·443	·430	44	30	21	44	27	21	...
June	80·4	79·4	101·1	103·2	88·9	89·3	·576	·630	·540	·565	·643	·562	56	45	28	57	45	28	0·81
July	77·4	78·2	90·7	92·2	81·8	83·1	·782	·759	·728	·760	·772	·717	83	71	55	82	70	51	6·11
August	73·4	74·2	88·1	84·4	76·6	77·9	·763	·794	·830	·766	·808	·831	92	87	78	91	85	75	14·49
September	70·2	69·4	89·6	92·0	78·1	66·8	·646	·642	·618	·623	·666	·652	86	61	47	87	59	48	...
October	58·1	56·7	88·9	91·6	72·6	73·3	·427	·431	·412	·411	·452	·441	86	39	32	88	39	32	0·20
November	47·7	46·9	79·4	82·0	63·0	63·8	·302	·320	·328	·290	·353	·349	89	39	35	89	40	35	0·53
December	38·8	38·0	75·5	77·9	56·5	57·4	·212	·228	·235	·197	·260	·250	89	34	28	86	36	28	...
Total for 1888	738·0	732·3	1041·9	1068·7	878·8	876·5	5·317	5·573	5·472	5·171	5·760	5·657	899	565	451	904	563	447	24·82
Average.	61·5	61·0	86·8	89·1	73·2	73·0	·443	·464	·456	·431	·480	·471	75	47	38	75	47	37	...
Total of 1887	737·2	738·1	1047·1	1070·5	883·9	891·5	4·978	5·215	4·776	4·865	5·732	5·116	825	516	401	814	529	418	21·89
Average.	61·4	61·5	87·3	89·2	73·6	74·3	·415	·435	·398	·405	·477	·426	69	43	33	68	44	35	...

APPENDIX C.

METEOROLOGICAL OBSERVATIONS (STATION B).

Results of Meteorological observations conducted at the Mokwabir Forest Reserve (Ajmere), about 1,680 feet above sea-level. (Observatories of the Dehra-Dun Forest School pattern. Cages with instruments 4 feet above ground.)

Calendar year 1888.	Dry Minimum.		Dry Maximum.		Daily Means.		Mean Vapour tension.						Mean relative humidity.						Rainfall.	
							Inside.			Outside.			Inside.			Outside.				
	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	From Minima.	At 10 hours.	At 16 hours.	From Minima.	At 10 hours.	At 16 hours.	From Minima.	At 10 hours.	At 16 hours.	From Minima.	At 10 hours.	At 16 hours.	Inside.	Outside.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	nches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inc hes.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	37·2	43·1	69·4	68·4	52·4	55·0	·190	·224	·240	·213	·234	·246	84	45	38	76	48	40	0·42	0·37
February	45·1	51·0	76·1	74·0	60·4	62·7	·253	·283	·291	·272	·305	·324	83	43	36	72	46	38	1 68	2·11
March	58·1	63·4	92·2	90·2	75·3	77·1	·328	·374	·440	·392	·516	·587	68	35	32	66	48	42	...	...
April	67·9	72·1	99·1	97·1	83·8	85·2	·332	·570	·574	·398	·608	·659	48	41	33	50	45	39	...	...
May	74·8	75·6	104·0	101·8	88·2	89·3	·322	·558	·537	·401	·640	·639	36	33	26	44	41	83	...	...
June	79·2	75·4	101·1	101·9	87·7	87·5	·547	·677	·592	·525	·706	·617	54	50	32	60	49	32	1·35	1·19
July	75·5	76·1	92·5	92·2	82·2	82·9	·759	·779	·759	·702	·763	·748	85	67	56	79	65	54	7·09	6·54
August	73·5	72·8	85·1	84·0	77·2	76·7	·755	·828	·867	·724	·813	·835	91	89	78	89	88	77	15·69	13·56
September	70·9	70·2	91·9	90 6	79·7	78·8	·642	·680	·658	·615	·659	·634	84	63	49	83	61	47	...	...
October	56·6	57·2	91·4	89·6	72·3	72·8	·417	·483	·473	·391	·450	·435	88	44	36	81	41	33	...	...
November	45·8	48·7	80·7	79·5	62·1	63·3	·293	·373	·387	·288	·442	·450	92	46	41	82	55	49	0·81	0·73
December	36·7	37·7	76·9	75·0	55·9	56·0	·202	·319	·301	·177	·345	·327	93	46	36	77	52	41	...	...
Total for 1888	721·3	743·3	1060·4	1044·3	877·2	887·3	5·040	6·148	6·119	5·098	6·481	6·491	906	602	493	859	639	525	27·04	24·50
Average	60·1	61·9	88·4	87·0	73·1	73·9	·420	·512	·510	·425	·540	·541	75	50	41	71	53	44	...	...
Total for 1887	715·8	773·9	1065·5	1049·0	876·1	899·3	4·858	5·678	5·326	5·255	6·125	5·743	855	564	436	801	598	479	26 72	22·86
Average	59·6	64·5	88·8	87·4	73·0	74·9	·405	·473	·444	·438	·510	·478	71	47	36	67	50	40	...	...

APPENDIX D.

METEOROLOGICAL OBSERVATIONS (STATION C).

Results of Meteorological observations conducted at Rowli Forest Reserve (Todgurh block), about 2,800 feet above sea-level. (Observatories of the Dehra-Dun Forest School Pattern. Cages with instruments 4 feet above ground).

Calendar year 1888.	Dry Minimum.		Dry Maximum.		Daily Means.		Mean Vapour tension.						Mean relative humidity.						Rainfall.	
							Inside.			Outside.			Inside.			Outside.				
	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	Inside Forest.	Outside Forest.	From Minima.	At 10 hours.	At 16 hours.	From Minima.	At 10 hours.	At 16 hours.	From Minima.	At 10 hours.	At 16 hours.	From Minima.	At 10 hours.	At 16 hours.	Inside.	Outside.
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.
January	44·4	46·5	73·2	71·9	56·3	57·5	·216	·223	·267	·226	·252	·264	74	45	38	72	48	38	0·41	0·50
February	49·0	51·3	78·8	77·4	62·4	63·7	·281	·279	·302	·306	·297	·319	81	44	35	80	46	36	0·38	0·34
March	61·7	63·1	93·6	92·5	76·5	77·3	·352	·305	·330	·382	·317	·346	62	29	23	67	30	24	...	0·04
April	72·1	73·3	99·3	98·3	85·0	85·6	·411	·479	·532	·418	·529	·552	50	37	30	89	39	32	...	...
May	77·8	78·4	103·5	102·4	89·1	89·7	·475	·359	·444	·446	·462	·452	48	24	23	39	27	23	...	...
June	80·0	80·3	102·2	101·5	89·0	88·6	·621	·643	·508	·564	·730	·636	61	46	29	54	53	34	0·82	0·83
July	75·4	75·7	91·7	91·0	81·1	81·2	·768	·753	·703	·739	·749	·716	88	70	53	84	70	55	3·98	4·10
August	71·5	72·2	82·9	82·4	75·7	75·9	·739	·780	·805	·736	·772	·795	94	84	78	93	84	78	16 86	16·68
September	67·6	69·2	90·9	90·3	77·4	78·2	·640	·666	·652	·607	·645	·612	89	61	49	84	59	46	0·41	0·38
October	59·5	62·0	92·4	91·2	73·4	74·9	·434	·423	·415	·446	·417	·414	85	39	31	80	38	31	...	...
November	50·0	53·7	83·8	84·1	64·1	62·6	·309	309	·304	·331	·331	·335	83	39	30	79	39	32	...	...
December	42·6	41·5	80·0	80·8	59·5	60·6	·218	·230	·236	·222	·217	·211	79	32	26	84	29	22	...	...
Total for 1888	751·6	767·2	1072·3	1063·8	889·5	895·8	5·464	5·449	5·538	5·423	5·718	5·652	894	550	445	865	562	451	22·86	22·87
Average	62·6	63·9	89·3	88·6	74·1	74·6	·455	·454	·461	·452	·476	·471	74	46	37	72	47	38	...	...
Total for 1887	450·5	461·3	608·4	609·3	519·1	523·4	3·708	3·920	3·841	3·769	3·923	3 758	561	395	323	546	398	319	21·86	21·19
Average	64·3	65·9	86·9	87·0	74·2	74·8	·530	·560	·349	·538	·560	·537	80	56	46	78	57	45	...	...

APPENDIX E.

WELL EXPERIMENT—MOHWABIR RESERVE.

AREA AND DESCRIPTION OF CATCHMENT ABOVE WELLS.—*The area is about 200 acres with a catchment consisting of a fairly broad valley with numerous small streams coming into the main nala. The rock is close to the surface and abounds in quartz, so that the soil is very poor This tract was taken up in 1872.*

Dates.	Well No. 1.	Well No. 2.	Well No. 3.
6th March 1888	51·50	37·45	32·12
13th „ „	55·20	37·58	32·29
20th „ „	56·66	37·62	32 41
27th „ „	59·83	37·83	32·50
3rd April „	63·91	37 95	32·66
10th „ „	64·12	38·00	33·00
17th „ „	65·00	38·33	33·25
24th „ „	62·58	38·54	33·41
1st May „	65·33	38·58	33·70
8th „ „	63·00	38·83	33·79
15th „ „	63·83	39·20	33·91
22nd „ „	63·91	39·41	34·00
29th „ „	66·75	39·66	35·25
5th June „	66·91	39·83	34·41
12th „ „	66·83	40·00	34·58
19th „ „	67·41	40·16	34·41
26th „ „	67·50	40·33	34·66
1st July „	63·41	40·58	30·16
8th „ „	...	...	...
AVERAGE FOR 1888 . .	63·00	38·88	33·36
AVERAGE FOR 1887 . .	63·16	39·61	34·00

APPPENDIX F.

WELL EXPERIMENT.

DANTA RESERVE.

Danta.—*The catchment area below wells is about 700 acres. The valley is broad and gently undulating. The valley has a fair depth of soil, the hills and undulating ground have the rock quartzite close to the surface with little soil. The tract was reserved in 1880.*

Popsing Nala.—*The catchment above wells is 1,500 acres, consisting of open hill sides with very little soil on them. The rock is almost entirely quartizite.*

Dates.	Danta				Popsing nala.
	Well No. 1.	Well No. 2.	Well No. 3.	Well No. 4.	well No. 3.
18th March 1888	23·00	19·00	16·12	11·91	12·04
25th „ „	23 66	19·33	16 45	12·41	12 16
3rd April „	24·16	19 58	16·80	12·50	12·50
8th „ „	24·58	19·80	17·25	12·62	12·80
22nd „ „	25·58	20·25	17·75	13·83	13·45
29th „ „	26·00	20 50	18·29	14·00	13 54
6th May „	26·62	20·75	18·66	14·54	14·00
13th „ „	27·12	21·00	18·80	14·58	14·25
20th „ „	27·66	21·25	19·18	15·25	14·58
27th „ „	28·16	21·37	19·41	15·50	14·95
3rd June „	28·66	21·66	19·50	16·50	15 25
10th „ „	29·00	21·83	20·16	16 91	15·50
17th „ „	29·29	22·08	20·58	17·16	15·75
24th „ „	29 87	22·33	21·00	17·50	in repair
1st July „	30·16	22·41	21·16	18·12	do.
8th „ „	30·41	22·66	21·50	18·33	19·83
AVERAGE FOR 1888	27·12	20·99	18·91	15·10	14·33
AVERAGE FOR 1887	31·60	23·66	21·80	16·18	15·48

APPENDIX G.

WELL EXPERIMENT.

RAJGURH RESERVE.

The catchment area is about 1,500 acres. The ravines come down somewhat abruptly from the main ridge and forming a somewhat narrow outlet for the water through the hills. The rock is chiefly quartzite, with sand hills at the foot of main ridge.

Date.	Chabia, Well No. 1.
18th March 1888	13·95
25th „ „	14·16
3rd April „	14·41
8th „ „	14·70
22nd „ „	15·16
29th „ „	15·75
6th May „	16·33
13th „ „	16·58
20th „ „	17·16
27th „ „	17·25
3rd June „	17·58
10th „ „	17·87
17th „ „	18·16
24th „ „	18·58
1st July „	18·75
8th „ „	19 16
AVERAGE FOR 1888	16·60
AVERAGE FOR 1887	15·48

AJMERE SUB-DIVISION.

Forest Revenue realized during the year ending 31st March 1889.

Budget Heads	Mohwabur and Madar Hill.	Taragurh.	Nagpahar.	Srinagar.	Rajon.	Danta.	Rajgurh.	Makerwali Hokran.	Shikast Masjid	General.	Total.
	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a p.	R a. p.	R a. p.	R a. p.	R a. p.
Ic. Grass and other minor produce . . .	...	...	...	176 0 0	...	...	...	...	...	...	176 0 0
IIb. Firewood and charcoal	304 14 6	147 10 0	963 0 0	52 0 0	100 1 0	74 0 0	55 0 0	36 0 0	14 0 0	...	1,746 9 6
IIc. Bamboos	...	125 0 0	1 4 0	...	..	...	...	...	...	...	126 4 0
IId. Grazing and fodder grass	984 2 0	125 0 0	779 4 0	559 7 0	62 4 0	621 0 0	144 2 0	179 6 0	30 0 0	...	3,484 9 0
IIe. Other minor produce	24 0 0	37 0 0	298 4 6	42 3 0	5 8 0	...	2 12 0	16 0 0	...	...	425 11 6
Va. Fines and forfeitures	64 7 9	66 2 9	23 11 0	83 5 6	21 8 0	36 1 6	22 10 0	35 1 0	...	...	352 15 6
Vc. Other sources	6 4 0	...	1 0 0	54 0 0	1 12 0	10 4 0	5 0 0	...	...	220 3 6	298 7 6
Total .	1,383 12 3	500 12 9	2,066 7 6	966 15 6	191 1 0	741 5 6	229 8 0	266 7 0	44 0 0	220 3 6	6,610 9 0

Forest Expenditure incurred during the year ending 31st March 1889.

Budget Heads.	Mohwabur and Madar Hill.	Taragurh.	Nagpahar.	Srinagar.	Bajosi.	Danta.	Bajgurh.	Makerwali Hokran.	Shikast Masjid.	General.	Total.
	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.
A.—Conservancy and Works.											
A VI*b*. Feed and keep of cattle	...	...	10 9 8	10 10 10	...	...	...	...	...	...	21 4 6
„ VI*c*. Stores, tools and plant	...	...	0 3 0	...	...	...	...	...	...	153 15 0	154 2 0
„ VII*b*. Buildings	..	...	20 0 0	65 0 0	...	...	...	22 0 0	...	...	107 0 0
„ VII*c*. Other works	126 8 0	...	...	...	...	...	...	...	...	...	126 8 0
„ VIII*a*. Demarcation	0 12 6	...	...	...	...	..	...	...	...	..	0 12 6
„ VIII*d*. Plantations	48 8 7	...	232 5 4	137 10 8	...	123 11 6	0 12 0	62 0 0	14 9 10	47 8 6	667 2 5
„ VIII*e*. Fire protection	..	22 13 4	29 10 4	...	27 1 1	22 12 1	5 5 0	...	...	...	107 9 10
„ VIII*f*. Other works	45 6 9	...	3 12 0	...	...	...	...	...	...	...	49 2 9
„ IX*a*. Refund	...	...	...	...	...	...	...	...	...	27 3 4	27 3 4
„ IX*b*. Law charges	...	...	...	...	...	...	...	...	...	94 8 4	94 8 4
Total	221 3 10	22 13 4	296 8 4	213 5 6	27 1 1	146 7 7	6 1 0	84 0 0	14 9 10	323 3 2	1,355 5 8
B.—Establishment.											
B I*b*. Pay of superior officer	...	...	...	...	..	...	...	...	...	4,952 7 7	4,952 7 7
„ I*c* „ Sub Forest establishment	343 6 2	165 2 2	161 4 11	392 4 10	138 7 9	70 0 0	151 6 9	94 2 0	...	...	1,516 2 7
„ I*d*. „ Office establishment	...	...	...	...	...	...	...	...	...	1,370 4 1	1,370 4 1
„ II*b*. Travelling allowance of superior officer	...	...	...	...	...	...	...	...	...	1,188 12 0	1,188 12 0
„ II*d*. „ „ of office establishment	...	...	...	...	...	...	...	...	...	49 15 7	49 15 7
„ III*a*. Country stationery	...	...	...	...	...	...	...	...	...	10 12 0	10 12 0
„ III*b*. Carriage of tent and records	...	...	...	...	...	...	...	...	...	75 12 2	75 12 2
„ III*c*. Rents	...	...	...	...	...	...	...	...	...	182 10 0	182 10 0
„ III*e*. Official postage	...	...	...	..	...	...	...	...	...	68 1 6	68 1 6
„ III*f*. Sundries	...	...	...	...	...	...	...	...	...	134 4 3	134 4 3
Total	343 6 2	165 2 2	161 4 11	392 4 10	138 7 9	70 0 0	151 6 9	94 2 0	...	8,032 15 2	9,549 1 9
GRAND TOTAL	564 10 0	187 15 6	457 13 3	605 10 4	165 8 10	216 7 7	157 7 9	178 2 0	14 9 10	8,356 2 4	10,904 7 5

MERWARA SUB-DIVISION.

Forest Revenue realized during the year ending 31st March 1889.

Budget Heads.	Chang.	Sheopura.	Bellawas.	Todgurh.	Dilwara and Chang Bits.	Anspahar.	Borwar-kotra.	Dewair.	Amner.	Banjari Mandlan.	General.	Total.
	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.
Ib. Firewood and charcoal	820 1 3	...	...	...	...	...	...	...	...	...	...	820 1 3
IIa. Timber	18 13 0	6 7 0	26 1 0	31 3 0	...	19 6 0	16 4 0	...	9 9 0	...	...	127 11 0
IIb. Firewood and charcoal	537 0 9	50 12 3	430 13 3	1,180 3 3	0 7 6	288 14 3	385 8 6	...	23 10 6	...	...	2,897 6 3
IIc. Bamboos	...	...	...	89 6 0	...	...	...	51 0 0	7 5 0	...	...	147 11 0
IId. Grazing and fodder grass	154 6 9	89 8 0	139 0 0	852 3 0	480 12 0	94 4 6	91 0 0	266 15 4	29 12 0	92 0 6	...	2,289 14 1
IIe. Other minor produce	43 5 6	...	9 11 0	39 2 0	...	...	...	27 2 9	13 14 6	9 5 6	...	142 9 3
Va. Fines and forfeitures	63 0 3	7 1 0	13 0 0	215 4 3	2 10 6	4 6 6	27 14 0	91 1 7	39 13 3	35 3 0	...	499 6 4
Vb. Refund	...	...	...	...	...	...	...	...	...	...	9 8 0	9 8 0
Vc. Other sources	4 4 0	...	1 0 0	7 4 0	12 2 0	...	0 6 0	...	3 4 0	0 10 0	...	28 14 0
Total	1,640 15 6	153 12 3	619 9 3	2,414 9 6	496 0 0	406 15 3	521 0 6	436 3 8	127 4 3	137 3 0	9 8 0	6,963 1 2

Forest Expenditure incurred during the year ending 31st March 1889.

	Budget Heads.	Chang.	Sheopura.	Belawas.	Todgurh.	Dilwara and Chang Bira.	Anspahar.	Borwar-Kotra.	Dewair.	Amner.	Banjari Mandlan.	General.	Total.
	A.—Conservancy and Works.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.	R a. p.
A	Ib. Firewood and charcoal	548 8 5	...	...	...	...	...	...	...	...	...	...	548 8 5
„	II. Timber and other produce removed from the forests by purchasers	0 4 0	...	...	4 4 0	0 4 0	...	...	...	...	...	...	4 12 0
„	VIb. Feed and keep of cattle	4 5 6	...	...	...	...	...	...	...	...	...	...	4 5 6
„	VIc. Stores, tools and plant	0 4 0	...	...	0 4 0	0 3 0	...	...	...	...	...	...	0 11 0
„	VIIa. Roads and Bridges	0 15 0	...	...	...	...	...	...	...	...	...	...	0 15 0
„	VIIb. Buildings	1 0 0	...	0 8 0	2 13 3	0 1 6	...	...	...	...	1 0 0	...	5 6 9
„	VIIc. Other works	...	...	...	114 1 6	...	...	...	...	...	...	...	114 1 6
„	VIIIa. Demarcation	1 7 6	...	0 6 6	0 8 0	...	...	...	0 4 0	0 8 0	...	...	2 13 0
„	VIIIc. Surveys	...	...	...	...	1 14 0	...	0 5 0	...	...	...	...	0 5 0
„	VIIId. Plantations	213 0 9	...	...	...	...	...	...	...	...	...	...	214 14 9
„	VIIIe. Fire-protection	26 2 3	8 8 0	35 1 0	331 10 6	...	24 14 0	33 7 0	145 0 1	27 4 4	23 14 6	...	655 13 8
„	VIIIf. Other works	14 13 1	...	...	9 4 0	...	...	...	...	...	...	...	24 1 1
	Total	810 12 6	8 8 0	35 15 6	462 13 3	2 6 6	24 14 0	33 12 0	145 4 1	27 7 4	24 14 6	...	1,576 11 8
	B.—Establishment.												
B.	Ic. Pay of Subordinate Forest Establishment	364 5 3	81 5 6	229 7 0	589 3 9	76 0 0	102 2 4	181 4 9	399 2 6	132 13 7	140 0 0	600 0 0	2,895 12 8
„	IIc. Travelling allowance of Subordinate Forest Establishment	...	...	...	...	...	...	...	...	...	...	191 12 0	191 12 0
„	IIIa. Country stationery	...	...	...	...	...	...	...	...	...	...	13 11 9	13 11 9
„	IIIb. Carriage of tent and records	...	...	...	...	...	...	...	...	...	...	70 0 0	70 0 0
„	IIIf. Sundries	...	...	...	...	...	...	...	...	...	...	24 1 6	24 1 6
	Total	364 5 3	81 5 6	229 7 0	589 3 9	76 0 0	102 2 4	181 4 9	399 2 6	132 13 7	140 0 0	899 9 3	3,195 5 11
	GRAND TOTAL	1,175 1 9	89 13 6	265 6 6	1,052 1 0	78 6 6	127 0 4	215 0 9	544 6 7	160 4 11	164 14 6	899 9 3	4,772 1 7

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